IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
CORPUS CHRISTI DIVISION

MARC VEASEY, *et al.*,
 	
     Plaintiffs,
 	
    v.
 	
 RICK PERRY, *et al.*,
 	
     Defendants.
	Civil Action No. 2:13-cv-193 (NGR)

UNITED STATES OF AMERICA,
 	
     Plaintiff,
 	
 TEXAS LEAGUE OF YOUNG VOTERS EDUCATION FUND, *et al.*,
 	
     Plaintiff-Intervenors,
 	
 TEXAS ASSOCIATION OF HISPANIC COUNTY JUDGES AND COUNTY COMMISSIONERS, *et al.*,
 	
     Plaintiff-Intervenors,
 	
    v.
 	
 STATE OF TEXAS, *et al.*,
 	
     Defendants.
	Civil Action No. 2:13-cv-263 (NGR)

TEXAS STATE CONFERENCE OF NAACP
BRANCHES, *et al.*,

        Plaintiffs,

    v.

JOHN STEEN, *et al.*,

        Defendants.

Civil Action No. 2:13-cv-291 (NGR)

BELINDA ORTIZ, *et al.*,

        Plaintiffs,

    v.

STATE OF TEXAS, *et al.*,

        Defendants

Civil Action No. 2:13-cv-348 (NGR)

DECLARATION OF LEE CHARLES BAYDUSH

I, Lee Charles Baydush, pursuant to 28 U.S.C. § 1746, declare as follows:

1. I currently serve as subject matter expert for the U.S. Department of State, Bureau of Consular Affairs, Consular Systems & Technology, Service integration & Innovation Division (CA/CST/SII). I have served in this capacity for eleven months. My duties include research, analysis, consulting, and operational support of Consular IT systems.

2. I have personal knowledge of the information contained in this declaration based upon my work for the State Department, and my personal involvement in completion of the database comparison described below.

3. On February 27, 2014, the State Department received an encrypted hard drive containing data regarding Texas registered voters from the United States Department of Justice in

the form of a 7 gigabyte .csv file containing 13,564,420 records for Texas registered

voters. The State Department was able to load all records except for 6. The identifiers

(VUIDs) for 5 of the 6 records that my agency was not able to load and analyze as part of

the database comparison process are as follows: 1

The final record that could not be loaded lacked a VUID, but

has a unique identifier of 3890395vf (other than this unique identifier "var_fill" value,

this record was blank).

4. The Texas data that the State Department received contained the following fields:

- AGDN_TAG
- AGDN_unique
- AGDNlast
- AGDNlast_TAG
- AGDNlast_unique
- AGD
- AGD_TAG
- AGD_unique
- and
- ADN_TAG
- ADN_unique
- AGN
- AGN_TAG
- AGN_unique
- GDN
- GDN_TAG
- GDN_unique
- DLN
- last_fix
- DLN_TAG
- multi_lastname1
- DLN_unique
- multi_lastname2
- unique_count
- first_fix
- FMLD
- middle_initial
- FMLD_TAG
- fem_str
- FMLD_unique
- dob_str
- SDZ
- zip5_res_alt
- SDZ_TAG
- str_num_res_alt
- SDZ_unique
- AGDN
- SND

- SND_TAG
- SND_unique
- FML1D
- FML1D_TAG
- FML1D_unique
- FML2D
- FML2D_TAG

- FML2D_unique
- unique_count2
- var_fill
- K2
- K3
- L2
- L3

5. The State Department executed the data preparation and comparison steps, attached as Ex. A, that were provided by the United States Department of Justice.

6. Through this process, the State Department attempted to match particular combinations of identifying information for Texas registered voters (*e.g.*, first and last name, gender, and date of birth) with the same or related combinations of identifying information with respect to holders of U.S. Passports and U.S. Passport cards. For each particular combination, the State Department identified instances where the identifying information for a Texas registered voter matched with the respective combination of identifying information for one or more holders of a U.S. Passport or U.S. Passport Card.

7. For each sweep through the relevant State Department datasets, we appended a column to the Texas data to indicate, on a record-by-record basis, the output of the database comparisons on all of the requested combinations.

8. Two State Department datasets were created for the analysis—one contained qualifying records of U.S. Passport and U.S. Passport Card holders with a Texas mailing address and the other contained qualifying records of U.S. Passport and U.S. Passport Card holders without a Texas mailing address. The frequencies of any missing values in those datasets are provided as Ex. B.

9. On April 9, 2014, the State Department transferred responsive data to the Department of Justice, in the form of a variable width file with comma delimiters. In this file, there

were 7,741 records in the TEAM database with commas embedded in the address field, and several hundred records with commas embedded in various name fields. Such commas could be incorrectly treated as delimiters in reading the Department of State matching results. As a result, I re-exported the results file using pipe delimiters and on May 14, 2014, the State Department transferred to the Department of Justice a compressed and encrypted 1.7 gigabyte zip file on a DVD that contained a 7.44 gigabyte pipe-delimited file. Both the April 9 and May 14 files are identical other than the use of different delimiters. The use of pipe delimiters on the May 14, 2014, file will prevent any difficulties reading the embedded commas in the results file. The name of the May 14, 2014 results file is Team_Pipe_Delim.

10. The results of each sweep, as described in Ex. A, can be found in the following columns of the data that the State Department returned to the Department of Justice on May 14:

   a. "AGDN_matches_id" contains results of the Stage 1, Step 3.1.1, Combination A match;

   b. "AGDNlast_matches_id" contains results of the Stage 1, Step 3.1.2, Combination B match;

   c. "AGD_matches_id" contains results of the Stage 1, Step 3.1.2, Combination C match;

   d. "ADN_matches_id" contains results of the Stage 1, Step 3.1.2, Combination D match;

   e. "AGN_matches_id" contains results of the Stage 1, Step 3.1.2, Combination E match;

   f. "GDN_matches_id" contains results of the Stage 1, Step 3.1.2, Combination F match;

   g. "FMLD_matches_id" contains results of the Stage 2, Step 3.2.1, Combination G match;

h. "SDZ_matches_id" contains results of the Stage 2, Step 3.2.2, Combination H match;

i. "SND_matches_id" contains results of the Stage 2, Step 3.2.2, Combination I match;

j. "ssn_matches_id" contains results of the Stage 2, Step 3.2.2, nine-digit social security number match;

k. "FML1D_matches_id_Other_FMLD" contains results of the Stage 2, Step 3.2.3, Combination K to G match;

l. "FML1D_matches_id_Other_FML1D" contains results of the Stage 2, Step 3.2.3, Combination K match;

m. "FML1D_matches_id_Other_FML2D" contains results of the Stage 2, Step 3.2.3, Combination K to L match;

n. "FML2D_matches_id_Other_FMLD" contains results of the Stage 2, Step 3.2.4, Combination L to G match;

o. "FML2D_matches_id_Other_FML2D" contains results of the Stage 2, Step 3.2.4, Combination L match;

p. "FML2D_matches_id_Other_FML1D" contains results of the Stage 2, Step 3.2.4, Combination L to K match;

q. "GDN_matches_id_Other_GDN" contains results of the Stage 3, Step 3.3.1, Combination F match;

r. "FMLD_matches_id_Other_FMLD" contains results of the Stage 3, Step 3.3.2, Combination G match;

s. "SND_matches_id_Other_SND" contains results of the Stage 3, Step 3.3.2, Combination I match;

t. "ssn_matches_id_Other" contains results of the Stage 3, Step 3.3.2, nine-digit social security number match;

u. "FML1D_matches_id_Other_FMLD" contains results of the Stage 3, Step 3.3.3, Combination K to G match;

v. "FML1D_matches_id_Other_FML1D" contains results of the Stage 2, Step 3.3.3, Combination K match;

w. "FML1D_matches_id_Other_FML2D" contains results of the Stage 2, Step 3.3.3, Combination K to L match;

x. "FML2D_matches_id_Other_FMLD" contains results of the Stage 3, Step 3.3.4, Combination L to G match;

y. "FML2D_matches_id_Other_FML2D" contains results of the Stage 3, Step 3.3.4, Combination L match;

z. "FML2D_matches_id_Other_FML1D" contains results of the Stage 3, Step 3.3.4, Combination L to K match;

aa. "a1_matches_id_TX" and "a1_matches_id_Other" respectively contain the results of the Stage 3, Step 3.3.5 Combination G1 to DOB + Last_fix + First_fix + Middle_name matches for the Texas-only and non-Texas address datasets;

bb. "a2_1_matches_id_TX" and "a2_1_matches_id_Other" respectively contain the results of the Stage 3, Step 3.3.5 Combination G2 to DOB + Last_fix + First_fix matches for the Texas-only and non-Texas address datasets;

cc. "a2_2_matches_id_TX" and "a2_2_matches_id_Other" respectively contain the results of the Stage 3, Step 3.3.5 Combination G2 to DOB + Last_fix + First word of First_name matches for the Texas-only and non-Texas address datasets;

dd. "a3_1_matches_id_TX" and "a3_1_matches_id_Other" respectively contain the results of the Stage 3, Step 3.3.5 Combination G3 to DOB + Last_fix + First_fix + Middle_Initial matches for the Texas-only and non-Texas address datasets;

ee. "a3_2_matches_id_TX" and "a3_2_matches_id_Other" respectively contain the results of the Stage 3, Step 3.3.5 Combination G3 to DOB Last_fix + First word of First_name + Middle_Initial matches for the Texas-only and non-Texas address datasets;

ff. "a3_3_matches_id_TX" and "a3_3_matches_id_Other" respectively contain the results of the Stage 3, Step 3.3.5 Combination G3 to DOB Last_fix + First word of First_name + First character of Second word of First_fix matches for the Texas-only and non-Texas address datasets;

gg. "TXMM_snlastdAll_matches_id" contains results of the Stage 4, Step 3.4.1, Sweep 1 match, while "TXMM_TX_snlastdAll_matches_id" contains the results for the Sweep 1 match based on the Texas-only dataset and "TXMM_Other_snlastdAll_matches_id" contains the results for the Sweep 1 match based on the non-Texas addresses dataset;

hh. "TXMM_ssn_matches_id" contains results of the Stage 4, Step 3.4.2, Sweep 2 match, while "TXMM_TX_ssn_matches_id" contains the results for the Sweep 2 match based on the Texas-only dataset and "TXMM_Other_ssn_matches_id" contains the results for the Sweep 2 match based on the non-Texas address dataset;

ii. "TXMM_ndAll_matches_id" contains results of the Stage 4, Step 3.4.3, Sweep 3 match, while "TXMM_TX_ndAll_matches_id" contains the results for the Sweep 3 match based on the Texas-only dataset and "TXMM_Other_ndAll_matches_id"

contains the results for the Sweep 3 match based on the non-Texas address dataset; and

jj.   "TXMM_fmldAll_matches_id" contains results of the Stage 4, Step 3.4.4, Sweep 4 match, while "TXMM_TX_fmldAll_matches_id" contains the results for the Sweep 4 match based on the Texas-only dataset and "TXMM_Other_fmldAll_matches_id" contains the results for the Sweep 4 match based on the non-Texas address dataset.

11. No other matching comparisons between the Texas data and data from State Department were undertaken beyond those set forth above, in accordance with the steps provided in Ex. A.

I declare under penalty of perjury that the foregoing is true and correct.
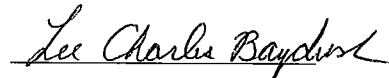
Executed on May 21, 2014.

Lee Charles Bayduff

Exhibit A

United States v. Texas: Federal Agency Algorithm Summary

This document summarizes the database matches that both the United States and all other

plaintiffs and the State of Texas have requested from Federal Agencies as part of the *Veasey v.*

Perry/*United States v. Texas* litigation (S.D. Tex).

The matching process proceeds in three parts, which are explained in detail below. *First*,

databases are prepared and standardized. *Second*, identifier values are constructed by combining

multiple individual fields. *Third*, the United States' one-to-many matches and the State of

Texas's many-to-many matches are conducted between databases.

PART I: DATABASE PREPARATION

Stage 1: Extraction of Available Data from Federal Identification & Disability Databases

Step 1.1.1: Extract complete name into separate first name, middle name, and last name fields.

Step 1.1.2: Extract date of birth.

Step 1.1.3: Extract gender.

Step 1.1.4: Extract residential address and mailing address.

Step 1.1.5: Extract social security number.

Step 1.1.6: Extract Texas driver license number (only if present in Federal database).

Stage 2: Separate Valid Identification and Disability Records

Step 1.2.1: Remove records from identification database extracts that indicate that an ID has been revoked or has expired more than 60 days before the date of the TEAM database snapshot (which is January 15, 2014).

Exhibit A

Step 1.2.2:   Remove records from disability database extracts that do not indicate

current disability status or indicate a Veterans Administration disability

rating of less than 50%.

Stage 3: Diagnostics

Step 1.3.1:   Report the frequency of missing values for each field.

Step 1.3.2:   Report the frequencies of invalid Social Security numbers, such as

111111111 and 123456789.

Step 1.3.3:   Report the frequencies of likely invalid dates of birth, such as January 1,

1901 and November 11, 1911.

Stage 4: Standardize Last Name

Step 1.4.1:   Remove last name suffixes that are contained within the last name field,

rather than a distinct suffix field. *E.g.*, <Smith Jr.> becomes <Smith>.

Step 1.4.2:   For last names containing hyphens, populate separate last name fields for

all parts of the last name. *E.g.*, the last name <Smith-Jones> would have

the value <Smith> entered into a LastName1 field and the value <Jones>

entered into a LastName2 field.

Step 1.4.3:   Remove spaces, hyphens, periods, and apostrophes from all last name

fields and convert all letters to uppercase. *E.g.*, <O'Connor> becomes

<OCONNOR> and <Smith-Jones> becomes <SMITHJONES>.

Step 1.4.4:   Code all missing values as blank fields.

Exhibit A

Stage 5: Standardize First Name and Middle Name

Step 1.5.1:   Remove spaces, hyphens, periods, and apostrophes from the first name field and convert all letters to uppercase. *E.g.*, <Jean-Paul> becomes <JEANPAUL>.

Step 1.5.2:   Parse the first letter of the middle name (if available) and use it to populate a middle initial field. *E.g.*, <John> would yield <J>.[1]

Step 1.5.3:   Code all missing values as blank fields.

Stage 6: Standardize Date of Birth

Step 1.6.1:   Convert the date of birth to an eight-digit string of MMDDYYYY.

Step 1.6.2:   Code all missing values as blank fields.

Stage 7: Standardize Gender

Step 1.7.1:   Code gender as a string of 1 for females and 0 for males.

Step 1.7.2:   Fill missing gender values using the most common gender value for the first name associated with a record. *E.g.*, if 99% of records with first name <JOHN> are listed as male, assign the male identifier to all records with first name <JOHN> and no listed gender.

Step 1.7.3:   If missing values remain, code all missing values as blank fields.

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[1] The U.S. Department of State does not maintain a separate field for middle names in its database of U.S. Passport and Passport Card holders. Instead, both first and middle name may be stored in the first name field. For this database, the following rule will be applied: treat the first word in the first name field as the first name, and treat the first letter following the first space as the middle initial.

Exhibit A

Stage 8: Standardize Address

Step 1.8.1:   Convert the residential ZIP code to a string if it is stored as a numeric

field.

Step 1.8.2:   Where the residential address ZIP code is blank, populate that field with

the value in the mailing address ZIP code field, if available.[2]

Step 1.8.3:   Truncate the residential ZIP code field to the first five digits. *E.g.*,

<77777-1234> becomes <77777>.

Step 1.8.4:   Where the residential address field is blank, populate that field with the

value in the mailing address field, if available.

Step 1.8.5:   Where address field containing street address begins with a street number,

isolate the street number. *E.g.*, <123 Main Street> becomes <123>.

Step 1.8.6:   Where the address field begins with recognized strings indicating a mail

box, eliminate strings to isolate the box number. *E.g.*, <PO Box 444>

becomes <444>.

Step 1.8.7:   If missing values remain, code all missing values as blank fields.

Stage 9: Standardize Social Security Number

Step 1.9.1:   Convert the social security number to a string if it is stored as a numeric

field.

Step 1.9.2:   Using full social security number, check for invalid SSNs. In the case of

invalid SSNs, code as missing. *E.g.*, <123456789> becomes <>.

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[2] For purposes of this database matching protocol, the only address fields utilized with respect to data regarding U.S. Passports and U.S. Passport Cards are those regarding mailing addresses.

Exhibit A

Step 1.9.3:   Extract the last four digits of full social security number as a four-

character string and use them to populate a separate SSN4 field.

Step 1.9.4:   Code all missing values as blank fields.

PART II: DATABASE PREPARATION

Stage 1: Construct Primary Identifier Variables for United States' One-to-Many Sweeps

Step 2.1.1:   Create Combination A: First Name + Last Name + Gender + DOB +

Residential ZIP + Residential Street Number. *E.g.*, the separate fields

<JEAN>, <SMITH>, <0>, <01011950>, <77777>, and <123> are

combined to a single field <JEANSMITH00101195077777123>.[3]

Step 2.1.2:   Create Combination B: Last Name + Gender + DOB + Residential ZIP +

Residential Street Number.

Step 2.1.3:   Create Combination C: Gender + Date of Birth + Residential ZIP +

Residential Street Number.

Step 2.1.4:   Create Combination D: First Name + Last Name + Date of Birth +

Residential ZIP + Residential Street Number.

Step 2.1.5:   Create Combination E: First Name + Last Name + Gender + Residential

ZIP + Residential Street Number.

Step 2.1.6:   Create Combination F: First Name + Last Name + Gender + DOB.

Step 2.1.7:   Create Combination M: Texas Driver License Number (where available).

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[3] For the U.S. Department of State only, the name portion of any combination is truncated if it is more than 32 characters long.

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Exhibit A

Stage 2: Construct Secondary Identifier Variables for United States' One-to-Many Sweeps

Step 2.2.1: Create Combination G: First Name + Middle Initial + Last Name + Date of Birth.[4]

Step 2.2.2: Create Combination H: SSN4 + Date of Birth + Residential ZIP.

Step 2.2.3: Create Combination I: SSN4 + First Name + Last Name + Date of Birth.

Step 2.2.4: Create Combination K: First Name + Last Name 1 + Middle Initial + Date of Birth.

Step 2.2.5: Create Combination L: First Name + Last Name 2 + Middle Initial + Date of Birth.

Step 2.2.6: Full Social Security Number.

Stage 3: Construct Identifiers Used Only For Texas's Many-to-Many Sweeps

Step 2.3.1: Create Combination for Texas's Sweep 1: SSN4 + Last Name + DOB.

Step 2.3.2: Create Combination for Texas's Sweep 3: First Name + Last Name + DOB

Step 2.3.3: Create Combination for Texas's Sweep 4: First Name + Middle Initial + Last Name + DOB

Note: Combinations for Texas's Sweeps 1 and 3 do not already exist as pre-made fields in the TEAM database extract but instead must be created from the underlying TEAM database fields, in addition to being constructed on the Federal database side. Texas's Sweep 4 is equivalent to

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[4] Only for the State Department, create three further variations of Combination G created using the State Department's "LFMName" field which contains Last, First, and Middle Names, in that order, truncated to a maximum length of 32 characters. Combination G1 is DOB + LFMName; Combination G2 is DOB + First two words of LFMName; and Combination G3 is DOB + First two words of LFMName + First character of third word of LFMName.

Exhibit A

the combination for the United States' Combination G. Texas's Sweep 2 is on full 9 social security number.[5]

Stage 4: Establish Identifier Uniqueness For Combinations A - L

      Step 2.4.1:   Generate a field that establishes the uniqueness of each identifier variable.

              For federal databases, for each combination A-L, generate a field that

              establishes uniqueness among only Texas records and a field that

              establishes uniqueness among nationwide records. *E.g.*, if only one record

              has the string <JEANSMITH01011950012377777> for Combination A,

              populate the uniqueness field for Combination A for that record as <1>. If

              four records have the string <JOHNSMITHA0101950> for Combination

              G, populate the uniqueness field for Combination G for each of those

              records as <2>, which indicates any number greater than one.

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[5] For purposes of matching to U.S. Department of State Passport and Passport Card holder data, Texas's Sweep 3 and Sweep 4 are as follows: Sweep 3: Last Name + First Name (restricted to 32 characters) + DOB. Sweep 4: Last Name + First Name + Middle Initial (restricted to 32 characters) + DOB.

Exhibit A

PART III: MATCH DATABASES

Stage 1: United States' Primary One-to-Many Matching Sweeps

Step 3.1.1:   For each case in which Combination A is unique in the TEAM database, match Combination A against Combination A in the identifier or disability database. For federal databases, use only the subset of records with Texas addresses in the identifier or disability database. Where a match is attempted but no match is found, indicate a zero in the Combination A output field. Where there is a match, indicate the uniqueness of Combination A in the identifier or disability database in the Combination A output field (*e.g.*, in cases where there is one matching record in the Federal database, <1> should be inserted into the Combination A output field, while a <2> should be inserted into the Combination A output field if the TEAM record matched 2 or more records in the Federal database).

Step 3.1.2:   Use the procedure in Step 3.1.1 to match Combination B, Combination C, Combination D, Combination E, and Combination F in the TEAM database against the equivalent combination field in the identifier or disability database.

Step 3.1.3:   Use the procedure in Step 3.1.1 to match Combination M in the TEAM database against the equivalent combination field in the identifier databases produced by the State of Texas.

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Exhibit A

Stage 2: United States' Secondary One-to-Many Matching Sweeps

Step 3.2.1:   For each case in which no matches were found in the primary one-to-many matching sweeps (A-F, M), and where Combination G is unique in the TEAM database, match Combination G against Combination G in the identifier or disability database. For federal databases, use only the subset of records with Texas addresses in the identifier or disability database. Where a match is attempted but no match is found, indicate a zero in the Combination G output field. Where there is a match, indicate the uniqueness of Combination G in the identifier or disability database in the Combination G output field (*e.g*., <1> if a unique match and <2> if matched to more than one record).

Step 3.2.2:   For each case in which no matches were found in the primary one-to-many matching sweeps (A-F, M), use the procedure in Step 3.2.1 to match Combination H, Combination I, and complete social security number[6] in the TEAM database against the equivalent combination/field in the identifier or disability database.

Step 3.2.3:   For each case in which no matches were found in the primary one-to-many matching sweeps (A-F, M), use the procedure in Step 3.2.1 to match Combination K against Combination G, Combination K, and Combination L in the identifier or disability database.

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[6] The full social security number is not created as a separate "combination" as it is its own field stored within the TEAM database under the field name "ssn".

Exhibit A

Step 3.2.4: For each case in which no matches were found in the primary one-to-many matching sweeps (A-F, M), use the procedure in Step 3.2.1 to match Combination L against Combination G, Combination K, and Combination L in the identifier or disability database.

Stage 3: United States' Nationwide Federal Sweeps

Step 3.3.1: For each case in which no matches were found in the primary and secondary matching sweeps of Texas records in a federal identifier or disability database, and where Combination F is unique, match Combination F against Combination F in the nationwide identifier or disability database. Where a match is attempted but no match is found, indicate a zero in the Combination F nationwide output field. Where there is a match, indicate the uniqueness of Combination F in the identifier or disability database in the Combination F nationwide output field (*e.g.*, <1> if a unique match and <2> if matched to more than one record).

Step 3.3.2: For each case in which no matches were found in the primary and secondary matching sweeps of Texas records in a federal identifier or disability database, use the procedure in Step 3.3.1 to match Combination G, Combination I, and full social security number in the TEAM database against the equivalent combination/field in the nationwide identifier or disability database.

Step 3.3.3: For each case in which no matches were found in the primary and secondary matching sweeps of Texas records in a federal identifier or disability database, use the procedure in Step 3.3.1 to match Combination

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Exhibit A

> K against Combination G, Combination K, and Combination L in the
>
> nationwide identifier or disability database.

Step 3.3.4:   For each case in which no matches were found in the primary and

secondary matching sweeps of Texas records in a federal identifier or

disability database, use the procedure in Step 3.3.1 to match Combination

L against Combination G, Combination K, and Combination L in the

nationwide identifier or disability database.[7]

Stage 4: Texas' Many-to-Many Nationwide Sweeps

Step 3.4.1   Regardless of whether the combination for Sweep 1 is unique in the

TEAM database, match against the equivalent combination in a

nationwide search of the Federal database.

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[7] Step 3.3.5 for the State Department only: Match the following Combination G variations from applicable State Department records, first to include only the subset of records with Texas addresses, and then to include all applicable U.S. Passport and Passport Card records nationwide (*e.g*., without Texas addresses), against the following fields from the TEAM database:
- Combination G1 to DOB + Last_fix + First_fix + Middle_name from the TEAM database;
- Combination G2 to DOB + Last_fix + First_fix from the TEAM database;
- Combination G2 to DOB + Last_fix + First word of First_name from the TEAM database;
- Combination G3 to DOB + Last_fix + First_fix + Middle_Initial from the TEAM database;
- Combination G3 to DOB + Last_fix + First word of First_name + Middle_Initial from the TEAM database; and
- Combination G3 to DOB + Last_fix + First word of First_name + First character of Second word of First_fix from the TEAM database.

Attempt matches for all TEAM records, regardless of whether they matched in any prior sweeps. Indicate <1> if a unique match and <2> if matched to more than one record.

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Exhibit A

     Step 3.4.2   Regardless of whether full 9 social security number is unique in the TEAM database, for Sweep 2, match against the equivalent field in a nationwide search of the Federal database.

     Step 3.4.3   Regardless of whether the combination for Sweep 3 is unique in the TEAM database, match against the equivalent combination in a nationwide search of the Federal database.

     Step 3.4.4   Regardless of whether the combination for Sweep 4 (Combination G) is unique in the TEAM database, match against the equivalent combination in a nationwide search of the Federal database.

Note: For each of the Texas many-to-many sweeps:
- Indicate <1> if any TEAM combination matches a single combination in the Federal database
- Indicate <2> if any TEAM combination matches more than one record in the Federal database.
- Indicate <0> if no match is achieved.

Examples:
- If there are two TEAM records that have identical versions of the combination for Sweep 1, and there is one record in the Federal database that matches on this combination, both of the underlying TEAM records will have a matching output of <1> for Sweep 1.

- If there are three TEAM records that have identical versions of the combination for Sweep 3, and there are five records in the Federal database that match on that combination, the three TEAM records will each have a matching output of <2> for Sweep 3.

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Exhibit B

Step 1.3.1 Diagnostics: Report the Frequency of Missing Values for Each Field

6, 781,544 Qualifying U.S. Passport/U.S. Passport Card records with 'TX' as the mailing address state

Field Name	Records with Missing Values
last_name	0
first_name	38
date_of_birth	0
gender_code	5
ssn	25,640
Last_fix	0
multi_lastname1	6,717,750
multi_lastname2	6,717,749
first_fix	38
middle_initial	929,454
fem_str	0
dob_str	0
zip5_num_res_alt	50
ssn4_str	25,640

92,776,332 Qualifying U.S. Passport/Passport Card records without 'TX' as the mailing address state

Field Name	Records with Missing Values
last_name	0
first_name	1,596
date_of_birth	2
gender_code	247
ssn	641,147
last_fix	0
multi_lastname1	91,615,428
multi_lastname2	91,615,406
first_fix	1,596
middle_initial	12,567,280
fem_str	16
dob_str	0
zip5_res_alt	757,630
str_num_res_alt	43,961